



RAW SEQUENCE LISTING PATENT APPLICATION US/08/530,112A

DATE: 12/17/98 TIME: 18:24:30

INPUT SET: S30390.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

1			S	EQUENCE LISTING	
2	·			EA.	
3	(1) General Information:			KENICHI MATSUBARA KOUSAKU OKUBO	
4					
5	(i)	APPLI	CANT:	KENICHI MATSUBARA	
6				KOUSAKU OKUBO	
7					
8	(ii)	TITL	E OF INVENTION:	GENE SIGNATURE	
9					
10	(iii)	NUMB:	ER OF SEQUENCES:	7848	
11					
12	(iv)	CORR	ESPONDENCE ADDRESS:	•	
13				Turan C Turan	
14		(A)	ADDRESSEE:	Lyon & Lyon 633 West Fifth Street	
15		(B)	STREET:	·	
16		4.00	CTMV.	Suite 4700 Los Angeles	
17		(C)	CITY:	California	
18		(D)	STATE:	U.S.A.	
19		(E)	COUNTRY:	90071	
20		(F)	ZIP:	90071	
21	(**)	COMB	UTER READABLE FORM:		
22 23	(V)	COMP	OTER READABLE FORM:		
24		(A)	MEDIUM TYPE:	3.5" Diskette, 1.44 Mb	
25		(4)	MBDIOM III B.	storage	
26		(B)	COMPUTER:	IBM Compatible	
27		(C)	OPERATING SYSTEM:	IBM P.C. DOS 5.0	
28		(D)	SOFTWARE:	Wordperfect 5.1	
29		\ <u>-</u> /		•	
30	(vi)	CURR	CURRENT APPLICATION DATA:		
31					
32		(A)	APPLICATION NUMBER:	08/530,112	
33		(B)	FILING DATE:	July 10, 1995	
34		, .			
35	(vii)	PRIOR APPLICATION DATA:			
36			•		
37		(A)	APPLICATION NUMBER:		
38		(B)	FILING DATE:	11 November 1994	
39					
40		(A)	APPLICATION NUMBER:		
41		(B)	FILING DATE:	12 November 1993	
42					
43	(viii)	ii) ATTORNEY/AGENT INFORMATION:			
44				trubum Dichond T	
45		(A)	NAME:	Warburg, Richard J.	
46		(B)	REGISTRATION NUMBER	R: 32,327	



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(C) REFERENCE/DOCKET NUMBER: 215/070.
47
48
        (ix) TELECOMMUNICATION INFORMATION:
49
50
                                             (213) 489-1600
                   TELEPHONE:
51
              (A)
              (B)
                                             (213) 955-0440
52
                   TELEFAX:
                                              67-3510
                   TELEX:
53
              (C)
54
    (2) INFORMATION FOR SEQ ID NO: 1:
55
           (i) SEQUENCE CHARACTERISTICS:
56
57
                (A) LENGTH:
                                 704
                (B) TYPE:
                                 nucleic acid
58
                (C) STRANDEDNESS: single
59
                (D) TOPOLOGY:
60
                                 linear
        (vii) IMMEDIATE SOURCE:
61
62
                (B) CLONE: HUMGS00001
63
         (ix) FEATURE:
                (D) OTHER INFORMATION: "N"=unidentified base
64
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
65
    GATCTTCAAA CAAGCATCAG CGTTTTCCAG GGCTTCCCAG AGGTCTGTGC GACTAGCCCG 60
66
    TGTCTATCAA AAGTTATTAG AGAGGATGAA GCATTAGCTT GAAGCACTAC AGGAGGAATG 120
67
    CACCACGGCA GCTCTCCGCC AATTTCTCTC AGATTTCCAC AGAGACTGTT TGAATGTTTT 180
68
    CAAAACCAAG TATCACACTT TAATGTACAT GGGCCGCACC ATAATGAGAT GTGAGCCTTG 240
69
70
    TGCATGTGGG GGAGGAGGGA GAGAGATGTA CTTTTTAAAT CATGTTCCCC CTAAACATGG 300
    CTGTTAACCC ACTTGCATGC AGAAACTTGG GATGTCACTT GCCTGACATT CACTTTCCAG 360
71
    GAGAGGACCC TATCCCCAAA TGTGGAATTG ACTTGCCTAT GGCCAAGGTC CCTTGGNAAA 420
72
    GGGAGCTTCA GTATTTGTGG GGGCNTCATA AAACCATGGN TTCAAGNCAA TCCAGCCTCA 480
73
    TNGGGNNGGT CCTGGGNACA GTTTTTTGGT AAAGGCCCTT GGCCCAGNTG GGGGGAATGG 540
74
    GCCTCCTTTT TAAGNTTTGG GNTGGAATNG TCTNGCAAAT TGGGGCTCCC ATTTCNCGGG 600
75
    GGTTTGGGGG TTTTTTNGGG CCTTNCCNGG NNGGAAGGGN TGGGTTTGGG GGNTNGGTTN 660
76
77
    CCNTTGGGNG GGCCTGGGGN TTTGATTTNA CCCGGGNCTT NGGN
78
79
    (2) INFORMATION FOR SEQ ID NO: 2:
           (i) SEQUENCE CHARACTERISTICS:
80
                 (A) LENGTH: 659
81
                 (B) TYPE:
                                 nucleic acid
82
                 (C) STRANDEDNESS: single
83
                 (D) TOPOLOGY: linear
84
85
         (vii) IMMEDIATE SOURCE:
                 (B) CLONE: HUMGS00002
86
87
          (ix) FEATURE:
                 (D) OTHER INFORMATION: "N"=unidentified base
88
          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
89
90
    GATCTTTAAA ATACACACTC AAATCAAGAA ACTTAAGGTT ACCTTTNTTC CCAAATTTCA 60
    TACCTATCAT CTTAAGTAGG GACTTCTGTC TTCACAACAN ATTATNACCT TACAGAAGTT 120
91
92
    TGAATTATCC GGTCGGGTTT TATTGTTTAA AATCATTTCT GCATCAGCTG CTGAAACAAC 180
    AAATAGGAAT TGTTTTTATG GAGGCTTTGC ATAGATTCCC TGAGCAGGAT TTTAATCTTT 240
93
    TNCTAACTGG ACTGGTTCAA ATGTTGTNCT CTTCTTTAAA GGGATGGCAA GATGTGGGCA 300
94
    GTGATGTCAC TTAGGGCAGG GACAGGATAA GAGGGNTTAG GGAGAGAAGA TAGCAGGGCA 360
95
    TGGCTGGGAA CCCAAGTCCA AGCATACCAA CACGGAGCAG GCTACTGTCA AGCTCCCCTC 420
96
    GGAGGCGGNG CTGGTTCACA GCCAGCTGGC ACCAGNTTTT NTNGNGGAAG NCTTTTTCAA 480
97
    ACAGTCTCAG GNAATCCAAT NTGCAAAGAC TTGCTTTNAG NAAAACCCAG NAGTTGAAAG 540
98
    GCTCCCAAGN ATTTTAAGGG NACTTNCCAA AACGGGGCCC CNGGNNCCTT TTGGGTTTNG 600
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INPUT SET: S30390.raw 100 GGGNTCAAAA CCCCGGAGGG GTTTGGGAAG NTTTTAATTG GNTTTAAAAN ATNNNTNTN 659 101 102 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: 103 104 (A) LENGTH: 625 105 (B) TYPE: nucleic acid 106 (C) STRANDEDNESS: single 107 (D) TOPOLOGY: linear 108 (vii) IMMEDIATE SOURCE: 109 (B) CLONE: HUMGS00003 (ix) FEATURE: 110 (D) OTHER INFORMATION: "N"=unidentified base 111 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: 112 GATCTAACTG GGTACCTGAG ATATTTNACA GCTGGACCTA GTTTCACAAT CTGTTGTCTC 60 113 CAGCTCTGCA TATGTCTGGC CAGGGGGCTT CTAGGAAGTA GGTTTCATCT ATCAAATGTC 120 114 TCCTCTGACT TCCTTTTGAA ACTTACTGCT CTTCTGTTTT ATTTTGTTTT GTTTGAAGCT 180 115 CAGAGGGAGA TGGGCAATTG ACAGGGATGC AATCCAGGGT GGGATTTCTT GAGGAAGTTA 240 116 CAAATAAGCT TGTTACAACA TCAAGATAGA TGGAATTGGA AGGATGCTAC CAGGAGAGTA 300 117 CTTACATAGT GCTCAGGAGT TTCTCTTCTT AAAATGTTTA CTGCTGAAAG ATGAGCAGGA 360 118 CCAGGGCGTT ATAGGCAGAG CCCTAGCCGA GAAACCTGCT GGCCTCTGCC TGTTTTCATT 420 119 TCCCACTTTT GGTTGTTGTG GCATTACTTT CAGAATTTGC ACTTTCCTGC TTGTCATGAC 480 120 TTTTTTGGCA CACTTGCCAT GACGGGTGTT TCTGNGAACC ATGGAAGTTT TGCGGTAGTG 540 121 CCTCCAGGGG CAGGGGGNAA GGAGGNGGTG TANCTGCATT TNGTNCAAAT AAATCCNGCC 600 122 TATTGTTAAT NAACCAGTCT TTTGN 123 124 125 (2) INFORMATION FOR SEQ ID NO: 4: 126 (i) SEQUENCE CHARACTERISTICS: 127 (A) LENGTH: 256 (B) TYPE: 128 nucleic acid (C) STRANDEDNESS: single 129 (D) TOPOLOGY: 130 linear (vii) IMMEDIATE SOURCE: 131 (B) CLONE: HUMGS00004 132 133 (ix) FEATURE: (D) OTHER INFORMATION: "N"=unidentified base 134 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 135 GATCTGCCAG GCTGGGGTGT TTTCGGTATC TGCTGTTCAC AGGTCTCCAC TGTAATCCGA 60 136 137 ATACTTTGCC AGTGCACTAA TCTCTTTGGA GATAAAATTC ATTAGTGTGT TACTAAATGT 120 NAATTTTNTT TTGCGGAAAA TACAGTACCG TGTCTGANTT AATTATTAAT ATTNAAAATA 180 138 139 CTTCATTCCT TAACTCTCCC TCATTTGCTT TGCCCACAGC CTATTCAGTT CCTTTGTTTG 240 140 GCAGGNTTCT GCAAAA 141 142 (2) INFORMATION FOR SEQ ID NO: 5: (i) SEQUENCE CHARACTERISTICS: 143 616 144 (A) LENGTH: 145 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 146 147 (D) TOPOLOGY: 148 (vii) IMMEDIATE SOURCE: 149 (B) CLONE: HUMGS00005 (ix) FEATURE: 150 (D) OTHER INFORMATION: "N"=unidentified base 151

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:



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INPUT SET: S30390.raw GATCAAGCTC AAGAATAAGC TGAAATATGG CCAGACTATC AGGCCCATTT NTCTCCCCTG 60 153 CACCGAGGGA ACAACTCGAG CTTTGAGGCT TCCTCCAACT ACCACTTGCC AGCAACAAAA 120 154 GGAAGAGCTG CTCCCTGCAC AGGATATCAA AGCTCTGTTT GTGTCTGAGG AGGAGAAAAA 180 155 GCTGACTCGG AAGGAGGTCT ACATCAAGAA TGGGGATAAG AAAGGCAGCT GTGAGAGAGA 240 156 TGCTCAATAT GCCCCAGGCT ATGACAAAGT CAAGGACATC TCAGAGGTGG TCACCCCTCG 300 157 GTTCCTTTGT ACTGGAGGAG TGAGTCCCTA TGCTGACCCC AATACTTGCA GAGGTGATTC 360 158 TGGCGGCCCC TTGATAGTTC ACAAGAGAAG TCGTTTCATT CAAAGTTGGT GTAATCAGCT 420 159 GGGGGAGTAA GTGGGATGTN TGCAAAAACC AGAAGGCGGC AAAAGCAGGT ACCTGNTTCA 480 160 NGGCCCGAAC TTTCACATCA NCTNTTTCAA GGTNTTNCCT GGNTGAGGNG GAACNTCCAN 540 161 GTTGGGGGTT TTGGGTTTTT TTAAGGGGTT CNTGTTNGCA AGGGGGTTGG GNTTNNTTTA 600 162 163 NNCCTGTTNN GNACCN 616 164 (2) INFORMATION FOR SEQ ID NO: 6: 165 (i) SEQUENCE CHARACTERISTICS: 166 167 (A) LENGTH: 615 168 (B) TYPE: nucleic acid (C) STRANDEDNESS: single 169 (D) TOPOLOGY: 170 linear (vii) IMMEDIATE SOURCE: 171 (B) CLONE: HUMGS00006 172 173 (ix) FEATURE: (D) OTHER INFORMATION: "N"=unidentified base 174 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6: 175 176 GATCTCTGCT ATTTTANCCC CCCAAATAAG TTATTTGTCC TTTAAGGTTG GTTACNNATA 60 ATACCCCTCA GTAAGATTCC AGTATTAATT TCTGGGCAGT TTGTTCTCTG TATACAATTG 120 177 178 CAAATGATAA GCATTTTTGT GAGTGACCAC CTTTGCAATA TGTTTGTTAA TTNTTCATGT 180 TGGGTTCTTT CTGAAATGTA CATCTTTACA TAAAAACCTC ACATTCTACT TGATTTACAC 240 179 TTCCTAGTCT ACATTACATG TGGTTGAAGG TTTTATACAT TCTATATGCT TTTACTAAAT 300 180 ATACAAGATT TACTACTAGA AATTTGGAGA AAGAACACTA ACACATGTAC TTGTGATTTG 360 181 TTCATGTTAT ATTAAAACCT TGAGATTTGT GTATTTATGT AGGGGGGGGT ATTGNCCAGG 420 182 183 NCTGNTGGTT TTTTGCTCCN TGGGGCTATT NTAATAAANC NGGGGTATNG GGTTGNTGGC 480 CTNGGTTTGG GCCTAAANTT GGATATATNT GGGGTTCCTT NGNTTTTACC AAAATNGNTT 540 184 TTGGTTGGTA GGGTTNTTAT TGGACCCNNT CCTGGGCCTG GGATAATNTG GCNGNTTCCC 600 185 NGGANAAAN NCCCN 186 615 187 (2) INFORMATION FOR SEQ ID NO: 7: 188 (i) SEQUENCE CHARACTERISTICS: 189 190 (A) LENGTH: 608 191 (B) TYPE: nucleic acid 192 (C) STRANDEDNESS: single 193 (D) TOPOLOGY: 194 (vii) IMMEDIATE SOURCE: 195 (B) CLONE: HUMGS00007 (ix) FEATURE: 196 (D) OTHER INFORMATION: "N"=unidentified base 197 198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7: 199 GATCAAACCA AAGGAAAAGT GTTGCTAGAG AAAATTGGGG AAAAGGTGAA AAAGAAAAAA 60 TGGTAGTAAT TGAGCAGAAA AAAATTAATT TATATATGTA TTGATTGGCA ACCAGATTTA 120 200 TCTAAGTAGA ACTGAATTGG CTAGGAAAAA AGAAAAACTG CATGTTAATC ATTTTCCTAA 180 201 GCTGTCCTTT TGAGGCTTAG TCAGTTTATT GGGAAAATGT TTAGGATTAT TCCTTGCTAT 240 202 TAGTACTCAT TTTATGTATG TTACCCTTCA GTAAGTTCTC CCCATTTTAG TTTTCTAGGC 300 203

TGAAAGGATT CTTTTCTACA TTATACATGT GTGTTGTCAT ATTTGGCTTT TGCTATATAC 360

TTTACCTTCA TTGTTAAATT TTTGTATTGT ATAGTTNCTT TGGNGGTATC TTAAAACCCT 420



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INPUT SET: S30390.raw ATTTTTGAAA ACCAACCTTG GCTTTGNTAA NCATTTGGGC CGCTTGGGTA NGTCCGGACC 480 207 THNCCTTTNC CCCNAGGGCC TGTCAGGAGN GCCGGNTTNN CCGGGGNGTT GGNCCCGNNG 540 CCTTCCCGAT TTTTNGGGGT TGGGTCCTTN GGTTNCCGGC NTCTGTANGG GGTNCNCCTT 600 208 209 TTNNNCCN 210 (2) INFORMATION FOR SEQ ID NO: 8: 211 212 (i) SEQUENCE CHARACTERISTICS: 213 (A) LENGTH: 606 (B) TYPE: nucleic acid 214 (C) STRANDEDNESS: single 215 216 (D) TOPOLOGY: (vii) IMMEDIATE SOURCE: 217 (B) CLONE: HUMGS00008 218 (ix) FEATURE: 219 (D) OTHER INFORMATION: "N"=unidentified base 220 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8: 221 GATCGCTTCC TAGAAATAAG CAACACCTCT CCCAAAAAGC AGCCCACAAG GCAGGGGCCA 60 222 GCAGCCCAGC CATCACTCAT CTTTNAGGAA ATNAGTTGGT AGCCTCTGTG CACTGTTTGG 120 223 TGGCCACATC ANNGGTGATG TCCTGTTCAC ATACCTGCTT GTATTTAAAG CCCTCAGTCT 180 224 GTCCTGTTGT GTGGGGCGAA GTGATGGACT CTGCCAGGTG GACATGCTGT GGGTGGATGT 240 225 TCCCGGCGTG TGCCGGCCTG AATGGACAGG GGTCACTTCA CAAGCATGTC AGGGAAAATC 300 226 ACTGTCACAC AATTCCAATG GATTTTGTGC TCTTTTTGAA AAAAAAAAT TCTTTAGCGT 360 227 AAACCATGNA TTTTTTTCA ATGTAGNCCC TTGGGGANTG AANTGAAATT TTGGGCTTCT 420 228 TCANATNCGN AAAATNAAAT TTTTACCCCT GAGGGGGGGA GCCCCTTTCT GAAAGAAGGT 480 229 230 NTGGGCCAAA AGCCCTTTTA ATGNTTGCTG GCCNTTGNTG GTTTTNANNG TCCANTTTGC 540 231 TTGGGGCGAA NGCCGNNTG ANAAAGGTGG GTTTCNCTGG NGGNTTTAAG GNGGTGGTTT 600 232 GNTTTN 606 233 (2) INFORMATION FOR SEQ ID NO: 9: 234 (i) SEQUENCE CHARACTERISTICS: 235 236 (A) LENGTH: 606 (B) TYPE: nucleic acid 237 238 (C) STRANDEDNESS: single (D) TOPOLOGY: 239 linear 240 (vii) IMMEDIATE SOURCE: (B) CLONE: HUMGS00009 241 242 (ix) FEATURE: (D) OTHER INFORMATION: "N"=unidentified base 243 244 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9: GATCTTCANN NGTTAAGCAC TTGCTCTNAA GATTAAAATT CCTTTTCTTT TTAAGGTTAA 60 245 GGGTGTGTAC GTATGGCAGT GATGTCTATG TTGAGATTAA CTTATGTATT GAGGAAAATT 120 246 TGAAGTTTAT TTTTTCGATG AATAAGGCTG TCAAATNATT TAGTATAGAT TAATGACATC 180 247 TTTTTTAGAA ATATTAAAGT GAGTATTCCT CATTATGTCA TCATTTCTGA TAATTAGAGT 240 248 249 GCTAATTTGA ATGTTAGATA ATGNTTCCAC ATCTATACCT ATTTCTTTCT AGGGCACTTC 300 250 TGACCCTGGG GCTTGGGGAT GGCCTTTAGG CACAAGTAGT GTCTGTGTTA AGTTCACTAA 360 251 ATGTGTATTT AATGAGAAAC ATTCCNATGT AAAAATGTGT GTATGTGAAC GTATGCNNAC 420 252 ATTGTTATTG TGCACCNGTA CATTGTGAAG AAGTAGTTTN GAAATTTTGT AANGCACAAC 480 CCTTAANGNG GTGTGGAGTT ATTAAANTGN TGTAGGCNCA AATGTAATGT TTAGCCTATA 540 253 AAAGGCCCTC CTATTGTCCN TNGGCAAGGC TTTGNCNCTT GNAANTAAAN CCCGTNTTTG 600 254 255 TTTAAA 256 257

(2) INFORMATION FOR SEQ ID NO: 10:

258

(i) SEQUENCE CHARACTERISTICS: